

# EAST Search History - *ORC* - 10/17/07

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 3463 | (react\$3 or product) with (fatty adj acid) with (polyamine or \$5ethylene\$4amine) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 13:41 |
| L2    | 924  | I1 and (tertiary near3 amine)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 13:41 |
| L3    | 100  | I2 and (papermaking or (paper near5 additive) or furnish or pulp)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 14:04 |
| L4    | 10   | I3 and (amine adj value)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 13:42 |
| L5    | 15   | I2 and (paper near3 (soften\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 13:40 |
| L6    | 3    | I5 not I3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 13:40 |
| L7    | 4450 | (react\$3 or product) with (carboxylic) with (polyamine or \$5ethylene\$4amine)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 14:49 |
| L8    | 1516 | I7 and (tertiary near3 amine)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 13:41 |
| L9    | 52   | I8 and (amine adj value)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2007/10/17 14:27 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| L10 | 207  | I8 and (papermaking or (paper near5 additive) or furnish or pulp)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:31 |
| L11 | 181  | I10 not I3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:26 |
| L12 | 532  | I8 and imidazoline  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:26 |
| L13 | 106  | I2 and (amine adj value)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:29 |
| L14 | 27   | I12 and (amine adj value)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:29 |
| L15 | 59   | I12 and (papermaking or (paper near5 additive) or furnish or pulp)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:31 |
| L16 | 1    | ((react\$3 or product) with (carboxylic) with (polyamine or \$5ethylene\$4amine) and (paper near3 (additive or soft or soften\$3))).clm.                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 14:50 |
| S1  | 15   | ((("3840486") or ("3709847") or ("4323490") or ("2926116") or ("5185202") or ("5744001") or ("4264516") or ("2772969") or ("5393334") or ("6346169") or ("5354425"))).PN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2005/11/01 14:36 |
| S2  | 5316 | (162/135,158,164.1,164.6,166,167,179,183,184).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/11/01 12:23 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S3  | 6430  | ((8/115.6,116.1,181,188,194) or (106/243) or (252/8.61,8.63)).<br>CCLS.                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/10/17 14:58 |
| S4  | 3379  | ((554/1,35,51,103,104) or (564/1,123,152,281)).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/10/17 14:50 |
| S5  | 14842 | S2 or S3 or S4   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 12:25 |
| S6  | 43    | ("reaction product" with polyamine with carboxylic) and quaternary and polyacrylamide                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 12:42 |
| S7  | 21    | S6 and S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 12:28 |
| S8  | 0     | ("reaction product" with polyamine with "fatty acid\$1") and quaternary and polyacrylamide                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 12:43 |
| S9  | 50    | ("reaction product" with polyamine with ("fatty acid" or "fatty acids")) and quaternary and polyacrylamide | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:23 |
| S10 | 91    | S6 or S9   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 12:44 |
| S11 | 0     | S9 and S5  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 12:44 |
| S12 | 36    | S10 and tertiary adj amine   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:26 |

## EAST Search History

|     |       |   |   |    |     |                  |
|-----|-------|---|---|----|-----|------------------|
| S13 | 859   | (tertiary adj amine) near2 (ratio or value)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:41 |
| S14 | 35    | ((tertiary adj amine) near2 (ratio or value)) and (amidoamine or (product and polyamine with fatty adj acid)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/10/17 12:50 |
| S15 | 36943 | softening and paper   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:29 |
| S16 | 506   | softening near2 paper   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:30 |
| S17 | 4     | S14 and S15   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:30 |
| S18 | 9     | S10 and dehydrat\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:45 |
| S19 | 79    | "tertiary amine value"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2005/11/01 13:59 |
| S20 | 1     | ("5296024").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2005/11/01 15:54 |
| S21 | 1321  | (paper or cellulos\$2 adj fiber) and soften\$3 and quatern\$4 and polyacrylamide                              | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT              | OR | ON  | 2005/11/01 15:56 |
| S22 | 204   | S21 and emulsifier  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT              | OR | ON  | 2005/11/01 15:56 |
| S23 | 204   | S21 and emulsifier  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT              | OR | ON  | 2005/11/01 15:56 |

## EAST Search History

|     |     |   |   |    |     |                  |
|-----|-----|---|---|----|-----|------------------|
| S24 | 82  | S23 and (drainage or retention)   | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT              | OR | ON  | 2005/11/02 09:12 |
| S25 | 2   | S24 and polyaminoamide  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT              | OR | ON  | 2005/11/01 15:58 |
| S26 | 57  | S21 and polyaminoamide  | USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT              | OR | ON  | 2005/11/01 16:07 |
| S27 | 1   | ("5314721").PN.   | USPAT;<br>USOCR                                       | OR | OFF | 2005/11/02 09:12 |
| S28 | 1   | ("20040188047").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2006/06/17 18:53 |
| S29 | 195 | (paper or sheet) and<br>polyamidoamine and<br>polyacrylamide and quaternary                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/06/19 10:30 |
| S30 | 34  | S29 and (oleic or soybean or ericic<br>or linoleic or gadoleic or ricinoleic or<br>isostearic or isopalmitic) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/06/19 10:32 |
| S31 | 14  | S30 and (polyethyleneamine or<br>diethylenetriamine or<br>triethylenetetramine or<br>dipropyleneamine)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/04/01 11:13 |
| S32 | 0   | S30 and ethyleneamine   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/06/19 10:33 |
| S33 | 1   | wo-200159213-\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/04/01 10:56 |
| S34 | 201 | (polyamidoamine or<br>polyaminoamide) and (polyamine<br>with (fatty adj acid) with react\$3)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/04/01 11:13 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S35 | 15 | (polyamidoamine or<br>polyaminoamide) with soften\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/04/01 11:14 |
|-----|----|--|---|----|----|------------------|